

OPERATIONS REPORT – NEVADA DIVISION

April 2015 Report to the City of Nevada

OPERATING DIVISIONS

MISSOURI

Atchison County
 Bonne Terre
 Boonville
 Bowling Green
 Buchanan County #1
 Cameron
 Cape Girardeau
 Craig
 East Central Missouri
 Water & Sewer
 Authority
 Elsberry
 Fayette
 Franklin County #1
 Franklin County #3
 Henry County
 Water Company
 Henry County #3
 Lake Ozark/
 Osage Beach
 Lincoln County #1
 Nevada
 Parkville
 Phelps County #2
 Platte County #C-1
 Ralls County #1
 Russelville
 St Charles County #2
 St Genevieve
 Sedalia
 Versailles

Water Treatment Plant Operations & Maintenance

1. Staff replaced a leaking faucet and repaired a mop sink enclosure.
2. A new incubator was installed and set up in the laboratory.
3. Staff addressed nuisance leaks on the chlorine feed rotameter and ejector.
4. Staff replaced a failed clear well depth transducer and display.
5. Quarterly QA/QC samples were analyzed to maintain state certification.
6. Plant run times were extended to meet demand created by distribution system flushing at the end of the month.

Waste Water Treatment Plant Operations & Maintenance

1. Aeration basin mixing pumps were rotated as a measure of preventive maintenance.
2. Staff started up the UV system to meet NPDES permit requirements regarding disinfection. The season runs April 1 through October 31.
3. Industrial pre-treatment inspection reports were completed and submitted to each industry.
4. Staff began land applying biosolids near the end of the month.
5. Staff sealed cracks in drive and parking areas at the plant.
6. A faulty check valve was rebuilt on the vacuum prime system at lift station #3.

Waste Water Collection / Water Distribution

1. Staff performed routine cleaning of sewer mains.
2. Staff replaced a damaged steering column in one of the fleet trucks and replaced brake pads on another.
3. Several concrete and yard repairs were completed from previous water service repairs.
4. Staff completed rehabilitation work on the dump truck bed with new paint and bed side boards.
5. A sewer main was investigated in an attempt to identify its location and who was connected.
6. Distribution system flushing was completed during the last 2 weeks of the month including hydrant flow testing with the Fire Department.
7. Staff began inspecting the installation of a new water main near Atlantic Street.
8. Staff responded to a sewer call in which a manhole had been damaged causing an SSO. The site was secured temporarily, while replacement plans are finalized. See attached photos below.

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Recommendations

1. Change language of City code Sec. 40-4 and 40-11 to minimize possible liability. Responsibility should be from the water main to the first point of shut off, whether it is a corporate shut off (curb stop) or inside the meter box.

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WATER TREATMENT PLANT PERFORMANCE

4 Log Sampling

Parameter	Monthly Average
pH	8.71
Temperature	20.2
Lowest Cl ₂ residual	1.7

Bacteriological Results

Date	Results (<u>A</u> bsent or <u>P</u> resent)
4/6/15	A
4/20/15	A

Flow Totals (Million Gallons per Day)

Meter	Average Daily Flow	Total Monthly Flow
Feed	0.82 MGD	24.48 MG
Product	0.55 MGD	16.42 MG
Blend	0.24 MGD	7.05 MG
Brine	0.23 MGD	6.81 MG
Distribution	0.85 MGD	25.36 MG

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WASTE WATER TREATMENT PLANT PERFORMANCE

NPDES Effluent Limits

Parameter	Monthly Average	Permit Limit
pH	7.1 min. and 7.2 max.	6.5 - 9.0
TSS	2 mg/L	20 mg/L
BOD ₅	4 mg/L	20 mg/L
NH ₃ -N	0.26 mg/L	1.40 mg/L
E. coli	24 #/100mL	206 #/100mL
Oil & Grease	2.5 mg/L	10 mg/L

Flow Totals (Million Gallons per Day)

Average Daily Flow	Total Monthly Flow
1.6 MGD	48.0 MG

Biosolids

	Report Period	Year to Date
Quantity Applied	14.2 dry tons	14.2 dry tons
Acres Applied	19.0 acres applied	19.0 acres applied

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April 2015 Customer Service Work Orders

Action	Completed This Period	Completed Year to Date
Connect	60	178
Disconnect	38	158
Cut Off	0	1
Meter Info	145	604
Meter Change	29	141
OCC Change	58	249
Reinstate	47	144
Service Change	0	0
Miscellaneous	11	180

TOTALS	388	1655
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Utility Locates	172	511
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